PATENT COOPERATION TREATY

RECEIVED

MAR 2 7 2007

From the INTERNATIONAL SEARCHING AUTHORITY

To: ANDREW V. SMITH JACKSON & CO., LLP

6114 LA SALLE AVENUE, #507

PC Tackson & Co., LLP

NOTIFICATION OF TRANSMITTAL OF

THE INTERNATIONAL SEARCH REPORT AND

OAKLAND. CA 94611-2802	THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)				
and the second of the second o	Date of mailing (day/month/year) 0 6 MAR 2007				
Applicant's or agent's file reference FN-143-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US06/32959	International filing date (day.monthysear) 22 August 2006 (22.08.2006)				
Applicant FOTONATION VISION LIMITED					
The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the writte pinion of the International Searching Authority				
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla					
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international				
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.					
For more detailed instructions, see the notes on the a	ccompanying sheet.				
	 The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 				
 With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: 					
the protest together with the decision thereon has bee request to forward the texts of both the protest and il	en transmitted to the International Bureau together with the applicant's ne decision thereon to the designated Offices.				
no decision has been made yet on the protest; the app	olicant will be notified as soon as a decision is made.				
4. Reminders					
Bureau. If the applicant wishes to avoid or postpone publication priority claim, must reach the International Bureau as provided in technical preparations for international publication.	e, the international application will be published by the International in, a notice of withdrawal of the international application, or of the Rules 90bis.1 and 90bis.3, respectively, before the completion of the				
International Bureau. The International Bureau will send a copy preliminary examination report has been or is to be established, before the expiration of 30 months from the priority date.	the written opinion of the International Searching Authority to the of such comments to all designated Offices unless an international These comments would also be made available to the public but not				
Within 19 months from the priority date, but only in respect	of some designated Offices, a demand for international preliminary				

examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide. Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	Authorized officer Amir Alavi
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Telephone No. 571-272-7386

PATENT COOPERATION TREATY

MAR 2 7 2007

From the INTERNATIONAL SEARCHING AUTHORITY				
To: ANDREW V. SMITH	PCT Jackson & Co., LLP			
JACKSON & CO., LLP 6114 LA SALLE AVENUE, #507 OAKLAND. CA 94611-2802	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day month/year) 06 WAR 2007			
Applicant's or agent's file reference FN-143-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US06/32959	International filing date (day month/year) 22 August 2006 (22.08.2006)			
Applicant FOTONATION VISION LIMITED				
The applicant is hereby notified that the international search have been established and are transmitted herewith.	th report and the written opinion of the International Searching Authority			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clai	ms of the international application (see Rule 46):			
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.:				
For more detailed instructions, see the notes on the ac-	companying sheet.			
 The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 				
 With regard to the protest against payment of (an) additi 	onal fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been request to forward the texts of both the protest and the	n transmitted to the International Bureau together with the applicant's e decision thereon to the designated Offices.			
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
 Reminders Shortly ofter the expiration of 18 months from the primity date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, befire the completion of the technical preparations for international publication. 				
The applicant may submit comments on an informal basis on the written opinion of the International Scarching Authority, to the International Durau. The International Bureau will send a copy of auch comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a denimal for international preliminary examination must be filled if the applicant wishes to postpone the entry into the national place until 30 muntls from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the intoinal phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months	(or later) will apply even if no demand is filed within 19 months			
Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide.			
Name and mailing address of the ISA/ US	Authorized officer			
Mail Stop PCT, Aitn: ISA/US Commissioner for Patents	Amir Alavi			
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 571-272-7386			

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FN-143-PCT	FOR FURTHER see Form PCT/ISA/220 ACTION se well as, where applicable, item 5 below			
International application No. PCT/US06/32959	International filing date (day/month/year) 22 August 2006 (22.08.2006)	(Earliest) Priority Date (day/month/year) 11 August 2006 (11.08.2006)		
Applicant FOTONATION VISION LIMITED				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of				
5. With regard to the abstract, the text is approved as submitting the text has been established, may, within one month from	tted by the applicant. according to Rule 38.2(b), by this Authority a the date of mailing of this international search	is it appears in Box No. IV. The applicant report, submit comments to this Authority.		
as suggested by the a	uthority, because the applicant failed to sugge uthority, because this figure better characterize			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/32959

Box IV	TEXT OF THE A	RSTRACT	(Continuation of Item	5 of the first sheet)

An image processing apparatus for tracking faces in an image stream iteratively receives a new acquired image from the image stream, the image potentially including one or more face regions. The acquired image is sub-sampled (112) at a specified resolution to provide a sub-sampled image. An integral image is then calculated for a least a portion of the sub-sampled acquired image. Fixed size face detection (120) is applied to at least a portion of the integral image to provide a set of candidate face regions. Responsive to the set of candidate face regions produced and any previously detected candidate face regions, the resolution at which a next acquired image is sub-sampled is adjusted.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/32959

	SSIFICATION OF SUBJECT MATTER	•		
IPC:	G06K 9/00(2006.01),9/32(2006.01),9/34(2006.0	01).9/40(2006.01)		
USPC:	382/115,118,173,254,299,300	etional desciforation of IDC		
According to	International Patent Classification (IPC) or to both na	ational classification and IPC		
B. FIEL	DS SEARCHED			
Minimum do	cumentation searched (classification system followed	by classification symbols)		
U.S. : 31	32/115.118,173,254,299.300			
Documentati	on searched other than minimum documentation to the	extent that such documents are included in	the fields searched	
Electronic da	ta base consulted during the international search (nam	e of data base and, where practicable, scarc	h terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.	
A	US 7,082,212 A (LIU et al) 25 July 2006 (25.07.200	06), column 10, lines 12-53.	1-57	
	I CD C			
]	documents are listed in the continuation of Box C.	See patent family annex.	121	
	pecial estegories of cited documents	date and not in conflict with the applica	tion but cited to understand the	
"A" document particular	defining the general state of the art which is not considered to be of relevance	principle or theory underlying the inven	lion	
	olication or patent published on or after the international filing date	"X" document of particular relevance, the el considered novel or cannot be considered.	aimed invention cannot be	
		when the document is taken alone	and to the other and the country of the	
"L" document establish t	which may throw doubts on priority claim(s) or which is cited to be publication date of another citation or other special reason (as	"Y" document of particular relevance; the cl	aimed invention cannot be	
specified)		considered to involve an inventive step with one or more other such documents	when the document is combined such combination being	
"O" document	referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art		
	published prior to the international filing date but later than the	"&" document member of the same patent fa	mily	
pnonty da		I Day of the Colonial Colonia Colonial Colonia Colonia Colonia Colonia Colonia Colonia Colonia Colonia		
	tual completion of the international search	Date of mailing of the international searce	h report	
	07 (30.01.2007)	0.6 MAR 2007		
	iling address of the ISA/US I Stop PCT, Attn: ISA/US	.0-0		
Con	missioner for Patents	Amir Alavi		
P.O. Alex	Box 1450 tandria, Virginia 22313-1450	Telephone No. 571-272-7386		
	(571) 273-3201			

PATENT COOPEDATION TREATY

			PATENT COU	PE	KATION IKI	SATY
From the INTERNA	TIONAL SEARC	HING AUTH	ORITY			
To: ANDREW V. SMITH JACKSON & CO., LLP		PCT				
6114 LA	SALLE AVENUE				13/1	RITTEN OPINION OF THE
OAKLAN	ND. CA 94611-2	802				ONAL SEARCHING AUTHORITY
						(PCT Rule 43bis.1)
					Date of mailing (day/month/year)	0.6 MAR 2007
Applicant	's or agent's file r	reference			FOR FURTHER	ACTION
FN-143-P						See paragraph 2 below
Internatio	nal application No).	International filing	date	(day/month/year)	Priority date (day/month/year)
PCT/US0			22 August 2006 (22			11 August 2006 (11.08.2006)
1			r both national classi			
	G06K 9/00(2006 382/115.118,173,		6.01),9/34(2006.01)	,9/4((2006.01)	
Applicant						
FOTONA	TION VISION L	IMITED				
L. This o	nninion contains i	ndications rela	ting to the following	item	s:	
	Box No. I	Basis of the				
	Box No. II	Priority	ориноп			
	Box No. III		shment of opinion wit	h reg	gard to novelty, inve	ntive step and industrial applicability
Box No, IV Lack of unity of invention						
Box No. V Reusoned statement under Rule 43bis. I(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement						
	Box No. VI	Certain doct	ments cited			
	Box No. VII	Certain defe	cts in the internations	ıl apı	olication	
	Box No. VIII	Certain obse	rvations on the intern	atio	nal application	
	THER ACTIO					
Intern Autho	ational Prelimina rity other than th	iry Examining is one to be the	Authority ("IPEA") ex sen i	cept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an ne International Bureau under Rule 66 1 <i>bis</i> b) ered.
IPEA	a written reply to	gether, where	appropriate, with an	endi	nents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For fu	rther options, see	Form PCT/IS.	A/220.			
3 For fu	rther details, see i	notes to Form	PCT/ISA/220.			
	mailing address of		Date of con	nplet	ion of this opinion	Authorized officer
	Auil Stop PCT, Alln Commissioner for Pa		30 January	2001	7 (30.01.2007)	Amir Algery
P.O. Box 1450 Alexandria, Virginia 22313-1450				•	T-1 - 1 - 271 272 770	
Facsimile l	No. (571) 273-320)1				Telephone No. 571-272-7386
Form PCT/I	SA/237 (cover she	eet) (April 200	15)			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/32959

Box No. V Reasoned statement under Rule 43 applicability; citations and explana		with regard to novelty, inventive step or industrial orting such statement	
1. Statement			
Novelty (N)	Claims	1-57	_YES
		NONE	_NO
Inventive step (IS)		1-57	_YES
	Claims	NONE	_NO
Industrial applicability (IA)	Claims	1-57	YES
massial approaching (117)		NONE	NO
2. Citations and explanations:			
fixed size face detection to at least a portion of an integr	ral image to asive to the s	use the Pirior Art does not each or fairly suggest applying at provide as set of candidate fine regions, each candidate size and location of set of candidate face regions and any pre red image is sub-sampled.	region

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with event claim appearing in the international application (it being understood that identic indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is can aided:
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14, claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filled on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Perliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCTIPEA/AU).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not set an International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(st), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is raide, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion to tegether, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 to before the expiration of 22 months from the priority date, whichever expirated refused 43bis. I(c)].

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.